

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCI United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/944,506	0/944,506 08/30/2001		Pai-Hung Pan	2919.5US (96-499.2) 4348	
24247	7590	09/06/2005		EXAMINER	
TRASK BR P.O. BOX 25			FOURSON III, GEORGE R		
SALT LAKE		JT 84110		ART UNIT	PAPER NUMBER
				2823	_

DATE MAILED: 09/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/944,506	PAN, PAI-HUNG			
Office Action Summary	Examiner	Art Unit			
	George Fourson	2823			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. lety filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 07 Ju	ne 2005.				
	<u> </u>				
3) Since this application is in condition for allowar	ication is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
 4) Claim(s) 1-14 and 18-24 is/are pending in the at 4a) Of the above claim(s) is/are withdraw 5) Claim(s) 7-12 is/are allowed. 6) Claim(s) 1-4,6,13,18,19,21,23 and 24 is/are rej 7) Claim(s) 5,14,20 and 22 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original transformation is objected to by the Examiner 11) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of the certified copies of the certified copies of the prior application from the International Bureau 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)			

Application/Control Number: 09/944,506

Art Unit: 2823

The finality of the office action mailed 1/11/05 is withdrawn in view of the new grounds of rejection below.

'Claim 22 is objected to because of the following informalities: In claim 22, it appears that "buffer film layer" should be replaced with - - trench isolation structure - - . Appropriate correction is required.

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claim 7 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 5 of U.S. Patent No. 6322634. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant claim is generic to the patent claim. See MPEP 806.04(i).

Claim 8 is rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 5-12 of prior U.S. Patent No. 6322634. This is a double patenting rejection.

See especially claim 12.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

The rejection under 35 USC 112, paragraph 1, is withdrawn because applicant is seen to have description in the disclosure as originally filed of a layer deposited in a single step which is required by the language "no discernable boundary". The term is not now seen to be open to labeling or identification.

Claims 1-4,6,13,18,19,21,23 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by either one of Morita or Mandelman et al.

Morita discloses in figure 72 trench isolation structure contacting the surface of the active surface area adjacent the trench formed by element 37, including a flat surface, and a portion of element 11 contacting silicon nitride buffer film layer 30 (figure 72).

Mandelman et al discloses in the process step between the intermediate products of figures 4a and 4b trench isolation structure contacting the surface of the active surface area adjacent the trench formed by element 22c, including a flat surface, and a portion of element 11 contacting silicon nitride buffer film layer 12 (figure 72).

Applicant appears to argue that the references label the isolation structures differently than applicant would label the structures and therefor the isolation structures of Mandelman et al and Morita do not contact the substrate as recited. However, the isolation structures of Mandelman and Morita et al can be labeled as argued above notwithstanding the labels applied by applicant or the disclosures of the references themselves because the structures identified as isolation structures above provide the function of isolation.

Claims 5,14,20 and 22 (see objection above) are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-12 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Fourson whose telephone number is (571) 272-1860. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith, can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 09/944,506

Art Unit: 2823

George Fourson Primary Examiner Art Unit 2823

GFourson September 5, 2005